

AMENDMENTS TO THE CLAIMS

Please cancel claims 5 and 11, amend claims 1-3, 6-10, and 12-14, and add claims 15-22 as follows:

1. (Currently Amended) A method for quantifying asymmetry of body positions during a movement, comprising:  
~~synchronizing one or more sets of data, wherein each set of data comprises two subsets of data, wherein one subset of data comprises body position representations on a left side of a body and one subset of data comprises body position representations on a right side of the body, and wherein each subset of data comprises body position representations spanning the movement; and~~  
~~calculating a value based on the one or more synchronized sets of data.~~  
determining a first set of data that comprises positions of a first limb as the first limb performs the movement;  
determining a second set of data that comprises positions of a second limb as the second limb performs a similar movement;  
generating a shape based on the first set of data and the second set of data; and  
determining a value of a characteristic of the generated shape.
2. (Currently Amended) The method of claim 1 wherein ~~the body positions are angles of joints~~ a position of the first limb includes an angle of a joint of the first limb.
3. (Currently Amended) The method of claim ~~[[1]]~~ 2 wherein ~~the body positions are angles of corresponding joints~~ a position of the second limb includes an angle of a corresponding joint of the second limb.
4. (Original) The method of claim 1 wherein the movement comprises one or more cycles.
5. (Cancelled)
6. (Currently Amended) The method of claim ~~[[5]]~~ 1 wherein ~~the figure is a cyclogram~~ shape comprises an angle-angle diagram.

7. (Currently Amended) The method of claim 6 wherein ~~the calculated value is an area of the cyclogram~~ the characteristic of the generated shape comprises an area of the generated shape.
8. (Currently Amended) The method of claim 6 wherein ~~the calculated value is an orientation of the cyclogram~~ the characteristic of the generated shape comprises an orientation of the generated shape.
9. (Currently Amended) The method of claim 6 wherein ~~the calculated value is a minimum moment magnitude of the cyclogram~~ the characteristic of the generated shape comprises a minimum moment magnitude of the generated shape.
10. (Currently Amended) The method of claim 1 further comprising ~~comparing the calculated value to a corresponding calculated value of a perfectly symmetrical movement or a baseline movement~~ comparing the determined value to a value of the characteristic of a shape representing a baseline movement.
11. (Cancelled)
12. (Currently Amended) A method for quantifying asymmetry of joint angles during a cycle of movement, comprising:  
    ~~obtaining a set of data entries, wherein a data entry consists of one or more pairs of angle measurements, a pair comprising one angle measurement for a left joint and one angle measurement for a corresponding right joint at a same point in time, and wherein the set comprises data entries spanning the cycle of movement;~~  
    ~~synchronizing the set of data entries;~~  
    determining a first set of data that comprises angles of a joint of a first limb as the first limb performs the movement;  
    determining a second set of data that comprises angles of a joint of a second limb as the second limb performs a similar movement;  
    generating a cyclogram based on the first set of data and the second set of data;  
    ~~calculating~~ determining a value of a characteristic of the generated cyclogram; and

~~comparing the characteristic to a corresponding characteristic of a cyclogram  
representing a perfectly symmetrical gait.~~  
comparing the determined value to a value of the characteristic of a cyclogram  
representing a baseline movement.

13. (Currently Amended) A system for quantifying asymmetry of body positions during a movement, comprising:

~~a synchronizing module that synchronizes one or more sets of data, wherein each set  
of data comprises two subsets of data, wherein one subset of data comprises  
body position representations on a left side of a body and one subset of data  
comprises body position representations on a right side of the body, and  
wherein each subset of data comprises body position representations spanning  
the movement; and~~  
~~a calculating module that calculates a value based on the one or more synchronized  
sets of data.~~  
a first determination module configured to determine a first set of data that comprises  
positions of a first limb as the first limb performs the movement;  
a second determination module configured to determine a second set of data that  
comprises positions of a second limb as the second limb performs a similar  
movement;  
a generation module configured to generate a shape based on the first set of data and  
the second set of data; and  
a third determination module configured to determine a value of a characteristic of  
the generated shape.

14. (Currently Amended) A computer program product for quantifying asymmetry of body positions during a movement, including a computer readable medium, which comprises instructions to perform the following:

~~synchronizing one or more sets of data, wherein each set of data comprises two  
subsets of data, wherein one subset of data comprises body position  
representations on a left side of a body and one subset of data comprises body~~

~~position representations on a right side of the body, and wherein each subset of data comprises body position representations spanning the movement; and calculating a value based on the one or more synchronized sets of data;~~  
determining a first set of data that comprises positions of a first limb as the first limb performs the movement;  
determining a second set of data that comprises positions of a second limb as the second limb performs a similar movement;  
generating a shape based on the first set of data and the second set of data; and  
determining a value of a characteristic of the generated shape.

15. (New) The method of claim 1 wherein a position of the first limb includes a location of a portion of the first limb.
16. (New) The method of claim 1 wherein a position of the first limb includes a location of a joint of the first limb.
17. (New) The method of claim 1 wherein the first limb is part of one body and wherein the second limb is part of the same body.
18. (New) The method of claim 1 wherein the first limb is part of one body and wherein the second limb is part of a different body.
19. (New) The method of claim 1 wherein the first limb comprises a leg.
20. (New) The method of claim 1 wherein the first limb comprises an arm.
21. (New) The method of claim 10 wherein the baseline movement comprises a perfectly symmetrical movement.
22. (New) The method of claim 12 wherein the movement comprises one or more cycles.